

IN THE MATTER OF
United States of America
Patent Application No.
09/341,299 in the name of
VERONICA ROBINSON

VERONICA ROBINSON

DECLARATION UNDER 37CFR1.132

I, VERONICA TOWNSEND, formerly VERONICA ROBINSON, of 11 McAlpine Retreat, Kinross, Western Australia, 6028, AUSTRALIA, hold the position of Managing Director with LICEBUSTERS INTERNATIONAL R & D PTY LTD of Unit 5, No. 1 Townsend Street, Malaga, Western Australia, 6090, AUSTRALIA, the Assignee of the above referenced application, and I give this evidence from company records and personal knowledge.

- 1. I hold a Diploma in Chemical Technology from West Bromwich Technical College, United Kingdom.
- 2. I am the inventor of the invention which is the subject of the claims of US Patent Application No. 09/341,299 ("The Application").
- 3. The invention which is the subject of the Application as defined in claims proposed at an interview with the Examiner on 24 January 2002 includes the feature of a carrier composition including a mixture of wax and an insect repellant, the insect repellant being present in an amount which is non-toxic to a person, but sufficient to treat and prevent infestation of lice and other parasitic insects on a person.
- 4. Attached hereto and marked Exhibit VT-1 is a copy of the Application as filed. On page 6, lines 25 to 30 of the Application it is stated that a suitable amount of pyrethrum for killing lice is 0.5 to 6.0% by volume of the total carrier composition. I confirm that this amount of pyrethrum is sufficient to treat and prevent infestations of lice and other parasitic insects on a person. I also confirm that the amount is non-toxic to a person.
- 5. Attached hereto and marked Exhibit VT-2 is a copy of an article dated August 1996 ("The Article") appearing in US publication "Happi". Happi is a magazine which is published monthly for people involved in the personal care, household, industrial and institutional fields. The article is entitled "Pyrethrum: A Safe and Effective Natural Insecticide".
- 6. The Article states on page 47, column 1, lines 17 to 27:

"Pyrethrum production is expected to significantly increase during the next five years due to its proven effectiveness and safety record and also consumer preference for natural products.

Pyrethrum is a contact insecticide with a very good human and animal safety record. It is generally recognised to be one of the least toxic of all the natural domestic insecticides."

7. The Article discusses the safety and toxicity of pyrethrum in a passage on page 48, column 3, line 20 to page 49, column 1, line 3. This passage states that there is no clear evidence of chronic poisoning in humans over many years of manufacture and use. The passage also states that the US Environmental Protection Agency (EPA) has carried out a safety investigation into the use of pyrethrums using a natural pyrethrum extract containing 57.6% of pyrethrins. The passage states that pyrethrum extract has a low order of toxicity and is unlikely to cause skin and eye irritation or sensitivity and that:

"In fact, all tests to date indicate and support earlier views that insecticides containing pyrethrum extracts present very few risks to humans or animals".

- 8. In my view, the Article indicates that the use of pyrethrum in an amount within the range 0.5% to 6.0% by volume, being significantly less than amount of natural pyrethrum extract used in the EPA safety investigation referred to in paragraph 7 above, is non-toxic to a person.
- 9. In June 1997, I carried out tests to establish the effectiveness of pyrethrum when used in an amount within the range 0.5% to 6.0% by volume. The tests involved producing an insect repellant substrate attached to a garment to be worn by a person, the substrate including a mixture of wax and pyrethrum in an amount within the range 0.5% to 6.0% by volume and providing each child of a group of 26 children at my daughter's school with one of the garments. The tests also involved producing such garments with pyrethrum in amounts outside the range 0.5% to 6.0% by volume.
- 10. The testing indicated that the use of pyrethrum in an amount within the range 0.5% to 6.0% by volume is particularly effective in treating and preventing infestations of lice and other parasitic insects.
- 11. None of the children included in the tests experienced any adverse effects as a result of carrying out the test.
- 12. Garments including an insect repellant substrate having a mixture of wax and pyrethrum in an amount within the range 0.5% to 6.0% by volume ("the Garments") have been sold in the

United States since 1998.

- 13. The Garments have been sold in Australia since 1997.
- 14. Attached hereto and marked Exhibit VT-3 is a copy of a label for a Garment and a copy of a letter from the Australian Therapeutic Goods Association (TGA) which indicates that approval has been given to use a label in relation to garments sold which claim that the Garment prevents infestation of lice.
- 15. Attached hereto and marked Exhibit VT-4 is a copy of a letter dated 8 June 1998 from Lea Hadley, principal of Tranby Primary School of Riverdale, Western Australia, in support of my claim that the Garments are effective in treating and preventing infestation of lice and other parasitic insects on a person and that an amount of pyrethrum in an amount within the range 0.5% to 6.0% is non-toxic to a person. I confirm that the headbands and cap inserts referred to in the letter include an insect repellant substrate having an amount of pyrethrum within the range 0.5% to 6.0% by total volume.
- 16. Attached hereto and marked Exhibit VT-5 is a copy of a letter from Chris Wells, pharmacist and proprietor of Scarborough Beach Pharmacy, Scarborough, Western Australia in support of my claim that the Garments are effective in treating and preventing infestation of lice and other parasitic insects on a person and that an amount of pyrethrum in an amount within the range 0.5% to 6.0% is non-toxic to a person. I confirm that the products referred to in the letter include an insect repellant substrate having an amount of pyrethrum within the range 0.5% to 6.0% by total volume.
- 17. Attached hereto and marked Exhibit VT-6 is a copy of a letter from Barry Tucker, Optometrist of Ballajura Optometrists, Ballajura, Western Austalia, in support of my claim that the Garments are effective in treating and preventing infestation of lice and other parasitic insects on a person and that an amount of pyrethrum in an amount within the range 0.5% to 6.0% is non-toxic to a person. I confirm that the products referred to in the letter include an insect repellant substrate having an amount of pyrethrum within the range 0.5% to 6.0% by total volume.
- 18. Attached hereto and marked Exhibit VT-7 are copies of correspondence received from customers in support of my claim that the Garments are effective in treating and preventing infestation of lice and other parasitic insects on a person and that an amount of pyrethrum in an amount within the range 0.5% to 6.0% is non-toxic to a person. I confirm that the products referred to in the correspondence include an insect repellant substrate having an amount of pyrethrum within the range 0.5% to 6.0% by total volume.

- 19. Attached hereto and marked Exhibit VT-8 is a copy of an article appearing in an Australian Newspaper in support of my claim that the Garments are effective in treating and preventing infestation of lice and other parasitic insects on a person and that an amount of pyrethrum in an amount within the range 0.5% to 6.0% is non-toxic to a person. I confirm that the products referred to in the article include an insect repellant substrate having an amount of pyrethrum within the range 0.5% to 6.0% by total volume.
- 20. Attached hereto and marked Exhibit VT-9 is a copy of an article appearing in New Zealand Newspaper "Sunday Star-Times" in September 1998 in support of my claim that the Garments are effective in treating and preventing infestation of lice and other parasitic insects on a person and that an amount of pyrethrum in an amount within the range 0.5% to 6.0% is non-toxic to a person. I confirm that the products referred to in the article include an insect repellant substrate having an amount of pyrethrum within the range 0.5% to 6.0% by total volume.

I HEREBY DECLARE that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardise the validity of the application or any patent issued thereon.

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VERONICA TOWNSEND

IN THE MATTER OF United States of America Patent Application No. 09/341,299 in the name of VERONICA ROBINSON

EXHIBIT VT-1



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(71) Applicant (for all designated States except US): LICE BUSTERS INTERNATIONAL PTY. LTD. [AU/AU]; Unit 4, 77 Howe Street, Osborne Park, W.A. 6017 (AU).

(72) Inventor; and

(75) Inventor/Applicant (for US only): ROBINSON, Veronica [GB/AU]; Unit 4, 77 Howe Street, Osborne Park, W.A. 6017 (AU).

(74) Agent: VAN WOLLINGEN, Rolf; Griffith Hack, 256 Adelaide Terrace, Perth, W.A. 6000 (AU).

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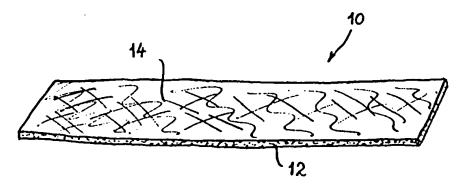
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(54) Title: INSECT REPELLENT SUBSTRATE FOR HEADWEAR

(57) Abstract

An insect repellent substrate (10) includes a fabric base material (12) made of felt which is impregnated with a repellent carrier composition (14). The carrier composition (14) includes a mixture of wax and a naturally occurring insect repellent such as pyrethrum oil. The carrier composition (14) may also include scented or aromatic oils such as citronella oil, rosemary oil, eucalyptus oil and neem oil. Strips of the fabric base material may be attached to head-



wear such as a headband or cap so that it is in contact with the wearer's hair or body. Active constituents of the carrier composition (14) provide effective treatment and prevention of headlice and other parasitic insects.

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INSECT REPELLENT SUBSTRATE FOR HEADWEAR

FIELD OF THE INVENTION

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The present invention relates to an insect repellent substrate for repelling lice and the like insects, and relates particularly, though not exclusively, to headwear having a strip of said insect repellent substrate provided in connection therewith.

BACKGROUND TO THE INVENTION

Infestations of headlice and other parasitic insects are a perennial problem, particularly in schools where the lice are easily transmitted from child to child. Up to the present time there has been very little that one can do to prevent a child from being infected with headlice. Regular inspection to identify nits, which are the eggs of lice, is the only way to detect an infestation. Treatment includes combing the hair with a fine-toothed comb and/or washing the hair with a special shampoo which contains chemical substances designed to kill the lice and nits.

However, the shampoos that are currently available to treat headlice typically contain harsh synthetic chemicals such as permethrium, piperonyl butoxide and organophosphates which have been known to cause skin irritation. In the United Kingdom across the counter sales of shampoos containing organophosphates have recently been banned because of health concerns.

A further disadvantage with shampoos is that they only treat the hair at the time of use. They do not prevent the child from being re-infected when he/she returns to school.

SUMMARY OF THE INVENTION

The present invention was developed with a view to providing a lice repellent substrate suitable for headwear that can kill any lice present in the hair as well as preventing any further infestation of headlice. Although the present

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invention will be described primarily in relation to the treatment and prevention of lice infestation, it is to be understand that it also has application to the treatment and/or prevention of infestations of other parasitic insects such as fleas. Furthermore, although the insect repellent substrate is particularly suitable for headwear it may also have applications such as, for example, under a pillow at night.

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According to one aspect of the present invention there is provided an insect repellent substrate for repelling lice and the like insects, the substrate comprising:

a piece of fabric base material impregnated with a repellent carrier composition, the carrier composition including a mixture of wax and an insect repellent whereby, in use, the carrier composition provides a controlled release of the insect repellent from the fabric base material.

Preferably the insect repellent is a naturally occurring compound. More preferably the insect repellent includes an extract from the pyrethrum flower. Most preferably the insect repellent is pyrethrum oil. Advantageously the carrier composition further includes one or more scented or aromatic oils. More preferably the carrier composition includes citronella oil and rosemary oil, which are also mild insect repellents. Preferably the carrier composition further includes neem oil, a naturally occurring insect repellent.

Typically the wax is a paraffin wax. Alternatively, the wax is beeswax obtained from honeycomb of the bee.

Preferably the carrier composition includes between 0.5% to 6.0% by volume of pyrethrum. Preferably the carrier composition includes between 0.5% to 4.0% citronella oil. Preferably the carrier composition includes between 0.5% to

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5.0% rosemary oil. Preferably the carrier composition includes between 3.0% to 9.0% neem oil. Preferably the carrier composition also includes between 0.5% to 6.0% eucalyptus oil.

- Most preferably the carrier composition includes 30 mls of pyrethrum (50% w/w), 20 mls of citronella, 25 mls of rosemary and 45 mls of neem oil to every one litre of wax. Preferably the fabric base material is a felt material; most preferably a polyester/cotton blend felt material.
- According to another aspect of the present invention there is provided a method of manufacturing an insect repellent substrate for repelling lice and the like insects, the method comprising the steps of:

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producing a repellent carrier composition by:
 heating a wax to a liquid state; and,
 mixing an insect repellent with the liquid
 wax;

dipping a piece of fabric base material into the carrier composition whilst still in the liquid state for a sufficient length of time to allow the base material to absorb some of the carrier composition; and,

allowing the impregnated piece of base material to cool so that the carrier composition solidifies on the base material whereby, in use, the carrier composition provides a controlled release of the insect repellent from the fabric base material.

Preferably the insect repellent is a naturally occurring compound. More preferably the insect repellent includes an extract of the pyrethrum flower. Most preferably the insect repellent includes pyrethrum oil.

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Preferably the step of producing the repellent carrier composition further includes mixing one or more scented or aromatic oils with the liquid wax. Most preferably the scented oils include citronella oil and rosemary oil, which are also mild insect repellents.

Preferably the step of producing the carrier composition further includes mixing neem oil with the liquid wax.

According to a still further aspect of the present invention there is provided a garment having an insect repellent substrate for repelling lice and the like insects provided in connection therewith, the garment comprising:

a piece of fabric base material impregnated with a repellent carrier composition and attached to the garment in a manner that will ensure contact with the wearer's hair or body, the carrier composition including a mixture of wax and an insect repellent whereby, in use, the carrier composition provides a controlled release of the insect repellent from the fabric base material.

Typically the garment is an item of headwear such as, for example, a headband, hat or a cap. Alternatively the garment is an animal garment, such as, for example, a flea collar or a coat.

BRIEF DESCRIPTION OF THE DRAWINGS

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In order to facilitate a better understanding of the nature of the invention a preferred embodiment of the insect repellent substrate will now be described in detail, by way of example only, with reference to the accompanying drawings, in which:

Figure 1 illustrates a typical piece of insect repellent substrate in accordance with the invention;

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Figure 2 illustrates a headband having a strip of the insect repellent substrate of Figure 1 attached thereto;

Figure 3 illustrates a strip of insect repellent substrate in accordance with the invention having a strip of hook and loop fastener material fixed thereto; and,

Figure 4 illustrates a baseball cap having several strips of the insect repellent substrate illustrated in Figure 3 attached thereto.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

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10 A preferred embodiment of the insect repellent substrate 10 as shown in Figure 1 comprises a piece of fabric base material 12 impregnated with a repellent carrier composition 14. Any suitable fabric base material may be employed. In the preferred embodiment the fabric base material is a felt material. A felt material made from a cotton and polyester blend was found to be most suitable. The fabric base material 12 should preferably be sufficiently absorbent to absorb the carrier composition 14 in a liquid state whilst retaining a degree of flexibility when impregnated with the carrier composition 14 in its solid state.

The repellent carrier composition 14 includes a mixture of wax and an insect repellent. In this embodiment the wax is a paraffin wax, although a naturally occurring wax such as beeswax obtained from honeycomb of the bee may also be used. The wax typically has a melting point of between 60°C to 65°C. The insect repellent employed in the carrier composition is preferably a naturally occurring compound. In the preferred embodiment the insect repellent includes an extract from the pyrethrum flower. Pyrethrins, the active constituent of pyrethrum flowers, are commonly used as a contact insecticide in fly-sprays. Pyrethrins are noted for the very rapid paralysis (knock-down) effect produced on flies, mosquitoes and other insects. Chemically modified

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pyrethrins, such as permethrium, have greater persistence and other commercially desirable properties. In the present invention, it is preferred to use the naturally occurring pyrethrum pale extract from pyrethrum flowers grown in Kenya. Typically, a diluted pyrethrum solution (50% w/w PBK) in an odourless isoparaffin solvent is used. Typically between 0.5% to 6.0% by volume of the pyrethrum oil solution is employed in the repellent carrier composition.

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Advantageously the carrier composition 14 also includes one or more scented or aromatic oils. The addition of scented or aromatic oils is desirable in order to give the repellent carrier composition a pleasant aroma or scent. In addition, selected naturally occurring scented oils, such as citronella oil, rosemary oil and eucalyptus oil act as mild insect repellents and/or have other medicinal qualities. Thus, for example, rosemary oil is a mild insect repellent and is also thought to help to relieve headaches. Citronella oil also acts as an insect repellent and provides a fresh citrus aroma. It also helps to dry up congestion of the nasal passages. Eucalyptus oil is an antiseptic and eucalyptus vapours act to relieve congestion and breathing difficulties through the nasal passages.

The carrier composition preferably also includes neem oil extracted from the neem tree, which is a long-lasting insect repellent. Through extensive experimentation the inventor has found that the repellent carrier composition should preferably include a mixture of between 0.5% to 4.0% by volume citronella oil, 0.5% to 5.0% by volume rosemary oil and 3.0% to 9.0% neem oil together with 0.5% to 6.0% by volume of pyrethrum. These proportions were found to give the carrier composition sufficient active components to kill any lice or nits present, balanced with the repellent and aromatic properties of the constituents. Α carrier composition which includes 30 mls of pyrethrum (50% w/w), 20 mls of citronella, 25 mls of rosemary and 45 mls of neem

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oil to every one litre of wax has been found to be particularly effective.

The wax in the carrier composition 14 provides a controlled release of the insect repellent from the fabric base material In use, the base material 12 may be sewn on the inside of a garment in a manner that will ensure contact with the wearer's hair or body. For example, a strip 16 of the insect repellent substrate may be sewn to the inside of a headband 18 as shown in Figure 2. Strips of the impregnated felt material are cut to various sizes, ranging from 20 cm to 24 cm in length and from 2.5 cm to 5.0 cm in width, are sewn stretchy cotton fabric to form the Alternatively, strips of the impregnated felt may be sewn onto or adhered to an existing headband. When the headband 18 is worn on the wearer's head the strip 16 of insect repellent substrate will be in contact with the wearer's The body temperature of the wearer will cause the wax in the substrate to soften allowing the active and aromatic constituents of the repellent carrier composition to be slowly released onto the wearer's hair and scalp. controlled and continuous release of active constituents onto the wearer's hair and scalp not only kills any existing headlice and/or nits but also prevents any further infestation. In use, the strip 16 of insect repellent substrate has been found to provide effective treatment and prevention of headlice for approximately 6 to 8 weeks. After this length of time most of the active constituents of the repellent carrier composition are found to have leached out or evaporated from the fabric base material.

The insect repellent substrate 10 is relatively simple and inexpensive to manufacture. Typically, strips of the felt material are cut to size and dipped in a preheated (to approximately 70°C) wax solution containing the pyrethrum, citronella, rosemary and neem oil in the proportions noted above. The pyrethrum oil, citronella oil, rosemary oil and

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neem oil are simply added to the melted wax and readily mix with the wax in view of their oily composition. The felt strips absorb the wax solution after two or three minutes and then the impregnated felt strips are allowed to cool so that the wax solution solidifies on the felt fabric. After approximately two minutes of cooling the impregnated felt strips are ready to be attached to any suitable garment. The strips of insect repellent substrate may be attached to the garment using any appropriate fastening, for example, by sewing, an adhesive or using a hook and loop fastener system such as Velcro (registered trade mark).

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Figure 3 illustrates a strip 20 of the insect repellent substrate having a strip of hook and loop fastener material 22 fixed thereto. One part of the hook and loop fastener is glued to the felt base material 10 and the other part can be attached to a garment by sewing or using a suitable selfadhesive. A baseball cap 24 is illustrated in Figure 4 (shown upside down) having several strips 20 of the insect repellent substrate attached to an inside surface of the cap where they will be in direct contact with the hair and/or scalp of the wearer. Similar strips of the insect repellent substrate can be attached to suitable animal garments, such as a flea collar worn by pet dogs and cats or on the bridle or protective coat worn by horses, sheep and other livestock. In this connection, the repellent properties of the active constituents of the repellent carrier composition have also been found to repel flies and mosquitoes.

A piece of the insect repellent substrate 10 may also be used as a "night breather" to reduce congestion and aid breathing during sleep. A carrier composition containing 30 mls by volume of citronella, 20 mls by volume of rosemary, 30 mls by volume of eucalyptus and 5 mls by volume of pyrethrum to every litre of wax, has been found particularly effective as a night breather. A piece of the insect repellent substrate approximately 20 cm x 14 cm is placed in the pillowcase or

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under the bottom sheet next to the mattress at the head of the bed. The night breather has also been found to relieve snoring in many cases. In this application, the insect repellent substrate 10 may also act to treat and prevent bed infestations of lice, fleas and dust mite.

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Now that a preferred embodiment of the insect repellent substrate has been described in detail, it will be apparent that it has several advantages over the prior art methods of treating headlice, including but not limited to the following advantages:

- (a) it provides immediate treatment as well as longlasting prevention;
- (b) the naturally occurring repellents employed are less hypo-allergenic and more environmentally friendly than the prior art synthetic compounds;
 - (c) the scented or aromatic oils produces a fresh herbal aroma;
 - (d) it is relatively simple and inexpensive to manufacture; and,
- 20 (e) it is inconspicuous and can be easily attached to commonly worn headwear by children, who are particularly self-conscious about such things.

Numerous variations and modifications to the described embodiment will suggest themselves to persons skilled in the art, in addition to those already described, without departing from the basic inventive concepts. For example, other types of suitable fabric base material may be employed. All such variations and modifications are to be considered within the scope of the present invention, the nature of which is to be determined from the foregoing description and

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the appended claims.

THE CLAIMS DEFINING THE PRESENT INVENTION ARE AS FOLLOWS:

- 1. An insect repellent substrate for repelling lice and the like insects, the substrate comprising:
- a piece of fabric base material impregnated with a 5 repellent carrier composition, the carrier composition including a mixture of wax and an insect repellent whereby, in use, the carrier composition provides a controlled release of the insect repellent from the fabric base material.
- An insect repellent substrate as defined in claim
 the insect repellent is a naturally occurring compound.
 - 3. An insect repellent substrate as defined in claim 2, wherein the insect repellent includes an extract from the pyrethrum flower.
- 15 4. An insect repellent substrate as defined in claim 3, wherein the insect repellent is a pyrethrum solution.
 - 5. An insect repellent substrate as defined in claim 1, wherein the carrier composition further includes one or more scented or aromatic oils.
- 20 6. An insect repellent substrate as defined in claim 5, wherein the carrier composition includes citronella oil and rosemary oil, which are also mild insect repellents.
- An insect repellent substrate as defined in claim
 wherein the carrier composition further includes neem oil,
 a naturally occurring insect repellent.
 - 8. An insect repellent substrate as defined in claim 1, wherein the wax is a paraffin wax.

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- 9. An insect repellent substrate as defined in claim 4, wherein the carrier composition includes between 0.5% to 6.0% by volume of pyrethrum.
- 10. An insect repellent substrate as defined in claim 9, wherein the carrier composition includes between 0.5% to 4.0% citronella oil.
 - 11. An insect repellent substrate as defined in claim 10, wherein the carrier composition includes between 0.5% to 5.0% rosemary oil.
- 10 12. An insect repellent substrate as defined in claim 11, wherein the carrier composition includes between 3.0% to 9.0% neem oil.

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- 13. An insect repellent substrate as defined in claim 12, wherein the carrier composition also includes between 0.5% to 6.0% eucalyptus oil.
- 14. An insect repellent substrate as defined in claim 13, wherein the carrier composition includes 30 mls of pyrethrum (50% w/w), 20 mls of citronella, 25 mls of rosemary and 45 mls of neem oil to every one litre of wax.
- 20 15. An insect repellent substrate as defined in claim 1, wherein the fabric base material is a felt material.
 - 16. An insect repellent substrate as defined in claim 15, wherein the fabric base material is a polyester/cotton blend felt material.
- 25 17. A method of manufacturing an insect repellent substrate for repelling lice and the like insects, the method comprising the steps of:

producing a repellent carrier composition by:

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heating a wax to a liquid state; and, mixing an insect repellent with the liquid wax;

dipping a piece of fabric base material into the 5 carrier composition whilst still in the liquid state for a sufficient length of time to allow the base material to absorb some of the carrier composition; and,

allowing the impregnated piece of base material to cool so that the carrier composition solidifies on the base material whereby, in use, the carrier composition provides a controlled release of the insect repellent from the fabric base material.

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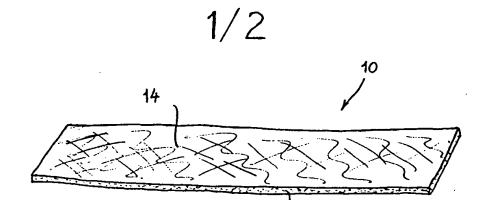
- 18. A method of manufacturing an insect repellent substrate as defined in claim 17, wherein the insect repellent is a naturally occurring compound.
 - 19. A method of manufacturing an insect repellent substrate as defined in claim 18, wherein the insect repellent includes an extract of the pyrethrum flower.
- 20. A method of manufacturing an insect repellent substrate as defined in claim 19, wherein the insect repellent includes a pyrethrum solution.
 - 21. A method of manufacturing an insect repellent substrate as defined in claim 17, wherein the step of producing the repellent carrier composition further includes mixing one or more scented or aromatic oils with the liquid wax.
 - 22. A method of manufacturing an insect repellent substrate as defined in claim 21, wherein the scented oils include citronella oil and rosemary oil, which are also mild insect repellents.

- 14 -

- 23. A method of manufacturing an insect repellent substrate as defined in claim 17, wherein the step of producing the carrier composition further includes mixing neem oil with the liquid wax.
- 5 24. A garment having an insect repellent substrate for repelling lice and the like insects provided in connection therewith, the garment comprising:

a piece of fabric base material impregnated with a repellent carrier composition and attached to the garment in a manner that will ensure contact with the wearer's hair or body, the carrier composition including a mixture of wax and an insect repellent whereby, in use, the carrier composition provides a controlled release of the insect repellent from the fabric base material.

25. A garment having an insect repellent substrate as defined in claim 24, wherein the garment is an item of headwear.



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FIG. 1.

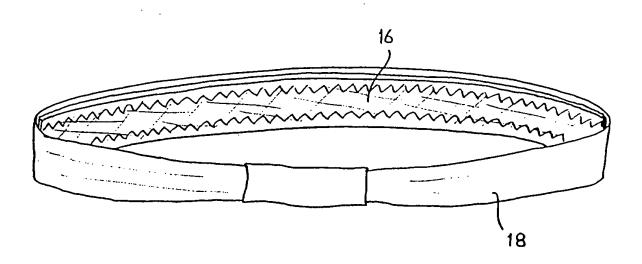
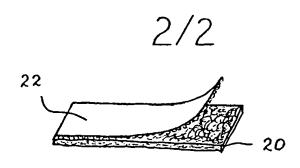


FIG. 2.



EI5.3.

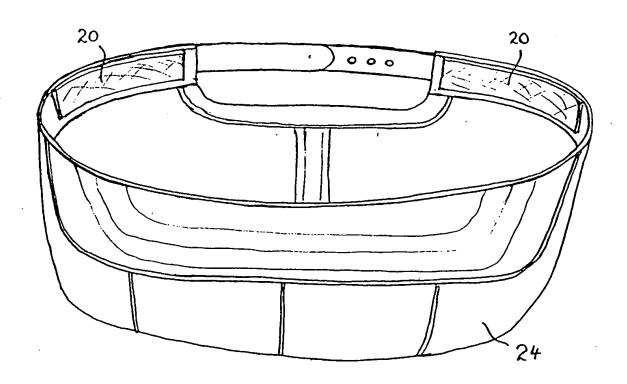


FIG.4.

INTERNATIONAL SEARCH REPORT

International Application No.
PCT/AU 98/00010

Α.	CLASSIFICATION OF SUBJECT MATTER				
Int Cl ⁶ :	A45D 8/36, A41D 20/00				
According to	International Patent Classification (IPC) or to bot	h national classification and IPC			
В.	FIELDS SEARCHED				
	mentation searched (classification system followed by /36, A41D 20/00, A01K 27/00, A01K 13/00,				
Documentation AU: IPC as a	searched other than minimum documentation to the exabove	etent that such documents are included in	the fields searched		
WPAT: (INS	base consulted during the international search (name of SECT OR REPEL:) AND WAX: SECT OR REPEL:) AND WAX:	of data base and, where practicable, search	n terms used)		
C.	DOCUMENTS CONSIDERED TO BE RELEVAN	г			
Category*	Citation of document, with indication, where ap	propriate, of the relevant passages	Relevant to claim No.		
X Y Y	Derwent Abstract Accession No. 84-303057/49, JP 59-187722 A (EARTH SEIYAKU KK) 24 N		1-4, 8-9, 15-20 5, 10, 13, 21, 24 24, 25		
Derwent Abstract Accession No. 84-051553/ JP 59-008956 A (EARTH SEIYAKU KK) 18 X Y			1-4, 8-9, 15-20, 24, 25 5, 10, 13, 21, 24		
X	Further documents are listed in the continuation of Box C	See patent family ar	nnex		
"A" docum not cor "E" earlier interna "L" docum or whi anothe "O" docum exhibi "P" docum	all categories of cited documents: and defining the general state of the art which is insidered to be of particular relevance of document but published on or after the attional filing date tent which may throw doubts on priority claim(s) och is cited to establish the publication date of critication or other special reason (as specified) tent referring to an oral disclosure, use, tion or other means tent published prior to the international filing to that than the priority date claimed	priority date and not in conflict with understand the principle or theory understand the principle or theory undecument of particular relevance; the beconsidered novel or cannot be considered novel or cannot be considered to involve an inventive combined with one or more other succombination being obvious to a pers	ticular relevance; the claimed invention cannot involve an inventive step when the document is one or more other such documents, such ng obvious to a person skilled in the art		
	nal completion of the international search	Date of mailing of the international search report			
10 February 19		25 FEB 1998			
Name and mail AUSTRALIAN PO BOX 200 WODEN ACT AUSTRALIA	ing address of the ISA/AU INDUSTRIAL PROPERTY ORGANISATION 2606 Facsimile No.: (02) 6285 3929	Authorized officer EDWARD MILLER Telephone No.: (02) 6283 2188			

INTERNATIONAL SEARCH REPORT

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PCT/AU 98/00010

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gory* Cit	tation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.			
Y		24, 25			
Y US	5 5465689 A (WINDER) 14 November 1995 lumn 2 line 63 - column 3 line 22	5, 10, 13, 2 24			
Y De	Derwent Abstract Accession No. 97-038432/04, Class P21 JP 08-296171 A (FUKUSUKE CORP) 12 November 1996				
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IN THE MATTER OF United States of America Patent Application No. 09/341,299 in the name of VERONICA ROBINSON

EXHIBIT VT-2

Pyrethrum:

A Safe and Effective Natural Insecticide

Interest is growing for this naturally-derived insecticide due to its unique properties and safety profile. Pyrethrum production is expected to significantly increase during the next five years.

> By George R. Whalley EUROPEAN EDITÖR AND CONSULTANT

YRETHRUM IS AN INSECTICIDE which is obtained from dried, daisy-like, flowers of the Chrysanthemum cinerariaefolium, whose active components are known collectively as pyrethrins. The insecticidal use of pyrethrum flowers probably originated in Persia and Dalmatia, with its introduction into Europe and the U.S. during the latter part of the 19th century.

The flowers are commercially grown in various tropical countries, particularly Kenya, India, Papua New Guinea and Australia. Kenya is the largest supplier in the world. Pyrethrum production is expected to significantly increase during the next five years due to its proven effectiveness and safety record and also consumer preference for natural products.

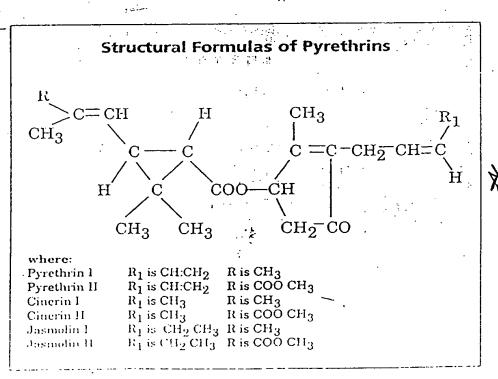
Pyrethrum is a contact insecticide with a very good human and animal safety record. It is generally recognized to be one of the least toxic of all the natural domestic insecticides. It boasts a rapid knockdown effect and has broad spectrum activity against many insects because its active constituents contain more than one molecular species. The knockdown effect and killing power of pyrethrins and the synthetic pyrethoids are due to their ability to interfere with the insect's nervous system.

Pyrethrum is readily degraded by exposure to air and sunlight, so it is not subject to the problems of persistency so often exhibited by many other commercial insecticides. These and other attributes have led to the widespread use of pyrethrum insecticides for various household, agricultural and industrial purposes

Pyrethrins Production

The active plant constituents are called pyrethrins. Actives are distributed throughout the whole plant, with the greatest concentration located in the flower head. Flowers are harvested at a stage when the petals are essentially horizontal, since this is when the maximum pyrethrins concentration occurs. Harvested flower heads are then sun or machine dried to a water content of about 10%. with a light, aliphatic solvent. The solvent is subsequently "flashed-off" to produce a dark, oleo-resin concentrate containing about 30% of the active material. The crude concentrate is usually further diluted and standardized to produce an oleo-resin extract that contains 20-25% of active pyrethrins. Such extracts may contain additional materials such as sesquiterpenes, flavonoids, triterpinols, sterols, n-alkanes, carotenoids and various fatty acids.

Refined, de-waxed and de-colorized extract concentrates are also commercially available. A high-active, refined pyrethrum concentrate, containing 50-60% pyrethrins is avail-The powdered flowers are extracted able as well. The addition of an antioxidant such as butylated hydroxytoluene (BHT) is usually added to the extracts to prevent oxidation. New extraction methods are currently being investigated. One method uses carbon dioxide in a



per-critical fluid extraction procene to reduce the exposure of the tract to heat during netvent moval. Relatively smaller quantiis of finely powdered pyrethrum wers are also available for the proction of insecticidal dusts and esquito coils.

ctives and Synergists

All insecticidal pyrethrins found in rethrum extracts are esters. They e formed by the reaction of two ids, chrysanthemic acid and rethric acid, with three alcohols: rethrolone, cinerolone and jaslone. The chrysanthemic acid ters are known as pyrethrin I, erin I and jasmolin I, known lectively as the Pyrethrins ction I and esters of pyrethric ds. Pyrethrin II, cinerin II and molin II, are known as the ethrins fraction II. These six apounds and their individual ric configurations provide both insecticidal and knockdown :vity of pyrethrum flowers and ir extracts. It is the in the ifferent growing conditions, tions and plant clones cause ations in the composition of the vidual insecticidal pyrethrins. wever, within a particular loca-.. and over a significant time perithe composition tends to be fairly

synergist is an essentially nonmaterial that, when added to an aticide, significantly increases its ing power. Its effectiveness is usuexpressed as the ratio of the 9 of the insecticide to that of the id insecticide and synergist.

sistent: The ratio of pyrethrins I

yrethrins II is also maintained.

is an important aspect, since the

thrins II fraction has a greater

ck down effect than the

ethrins I fraction, which has

Many pyrethrum synergists have losen deservered, they include session, sessionalin, piperonyl butoxide, tropital, bucarpolate, sesamex, safroxane, piperonyl cyclonene and sulfoxide. All of these compounds contain the methylene-dioxyphenol group in their molecular structure. Other effective synergists not containing this moiety include commercial preparations such as MGK 264, SKF 500 and octochlorodipropyl ether. Synergism is also exhibited by other insecticides, including the synthetic pyrethroids such as tetra-

Different growing conditions docations and planticiones cause variations in the composition of the individual insecticidal pyrethrins.

methrin, resmethrin and allethrin.

Piperonyl butoxide, butyl-3, 4methylenedioxy-6-propylbenzenediethylene glycol ether, sulfoxide (1,2-methylenedioxy-4-[2-octylsulfynyl) propyl] benzene, tropital (piperonal bis [2-(2-n-butoxyethoxyethyl] acetal), and bucarpolate (ester of piperonylic acid and the mono-n-butyl ether of diethylene glycol) have all been used as pyrethrum synergists, as have commercial compounds such as MGK 264 and Syneprin 500. But today piperonyl butoxide and MGK 264 are the major synergists for both natural pyrethrins and the synthetic pyrethroids. These relatively inexpensive synergists have enabled formulators to lower concentrations of the more expensive naturals pyrethrin, yet still produce effectives products that cost less.

Synergists seem to inhibit the detoxification of pyrethrins by the insect's own biochemical, self-protective mechanisms. Insects' ability to de-toxify pyrethrins varies, so different quantities of synergist and pyrethrin are usually required for different insect species. Adult mosquitoes, for example, have a poor ability to destroy pyrethrins and therefore require a low level of insec-

ticide and synergist. Houseflies, however, more readily destroy pyrethrins and consequently require higher dosage levels.

Safety and Toxicity

Throughout its widespread use, pyrethrum has generally been considered to be a safe insecticide. There is no clear evidence of any chronic poisoning in humans over many years of manufacture and use. Such general statements, widely accepted in the past, have been the subject of a 10-year safety investigation requested by the

United States Environmental Protection Agency (EPA) for additional data to support the re-registration of all pesticides. Those concerned with the manufacture and use of pyrethrum products formed a consortium to obtain comprehensive data to meet EPA requirements. A natural pyrethrum extract, containing 57.6% of pyrethrins, having a pyrethrins I to pyrethrins II ratio of 1.58 was used as the reference sample.

The results of these studies, using state-of-the-art procedures, indicate that pyrethrum extract has a low order of toxicity and is unlikely to cause skin and eye irritation or sensitization. It does not act as a teratogen or reproductive toxin and has a low potential to cause tumors in mammals. In fact, all the tests to date indicate and support earlier views that insecticides containing pyrethrum extracts present very few risks to humans or animals.

Ecotoxicological and environmental effects of pyrethrum have also been re-examined in light of the EPA requirements and the results indicate that when correctly applied, pyrethrum insecticides have little adverse effect on wildlife and no long term adverse activity on the environment. Because of its rapid dissipa-



ster killing power.

GEORGE R. WHALLEY, who has years of experience in the production of soaps and detergents, is consulting from his headquarters at 8 Albany Drive, St. Peter's Road, Bury Lancs BL9 9RD, England. Phone and fax: (44) 161 764 6281.

a, pyrethrum does not appear to main in the soil 24 hours after its plication.

vailability and Applications

Pyrethrum powder, as well as crude :.d refined pyrethrum concentrates, re obtained in various qualities from oppliers in different countries. But ne world's largest producer, The vrethrum Board of Kenya, supplies yrethrum as a crude oleo-resin xtract that contains 25% pyrethrins n an odorless isoparaffinic solvent. 'he material is suitable for agriculural sprays and mosquito coils. A imilar, but partially refined concenrate is also available; it can be sed in fly sprays and other asecticides. A fully refined, lecolorized and deodorized pale extract, at 25% and 50% vrethrins content, is available or insecticidal aerosols and simar preparations.

A commercial pyrethrum powier, containing 1.3% pyrethrins, s used for the fomulation of nsecticidal dusts and mosquito ioils. Additionally, there is available a special mosquito coil powler containing 0.6% pyrethrins.

Pyrethrum marc is a coarse or fine cowder which is obtained by grinding iried flowers after solvent extraction. This material can contain about 0.1% if residual pyrethrins and may also be used for mosquito coil manufacture. The finely ground material has good burning properties with a pleasant aroma.

Household sprays and aerosols must be oil-based because pyrethrins are only soluble in non-polar solvents. Suitable solvents include various petroleum fractions with low aromatics content. Odorless kerosene or commercial iso-paraffins are the preferred non-polar solvents, industrial sprays are usually diluted with a light mineral oil. Mists or fogs can be produced with a heavier oil and in cases involving the treatment of foodstuffs, certain edible oils can be used.

Water-based products are also available, but due to their water insolubility, the pyrethrum extracts have to be solubilized or emulsified with surfactants. Water-based products are becoming more popular because of legislative pressures to reduce levels of VOCs (volatile organic compounds) entering the atmosphere. There is also a continuing

consomer demand for "safer" products. Water-based products also have the advantages of low odor and fiantiability and leave a less oily residue.

Due to the presence of ester groups in all natural pyrethrins, products cannot have high pH values. This makes the use of conventional soaptype emulsifiers inadvisable. Ethoxylated anionic and nonionic surfactants can, however, be used to produce fairly stable oil-in-water emulsions. Micro-emulsions are also used. Pyrethrins are fairly tolerant toward lower pH values, but are incompatible with metals such as

Pyreinrim is also effective on fleas, lice and mosquir oes, and it has attural applications as well.

lead, brass, copper, zinc and iron, particularly in the case of water-based preparations.

General Household Products

When used in the home as pressure or aerosol sprays, pyrethrum-containing products are safe and effective insecticides against most types of flying insects. They are particularly effective against houseflies and mosquitoes, because of their fast knockdown and good toxicity. There is an added advantage to using pyrethrum-based products on houseflies: Pyrethrum rapidly paralyzes the insects and makes, them fly toward daylight, out windows and away from food preparation or storage areas.

Aerosols and pressure sprays containing pyrethrum are also used against cockroaches, fleas, ants and similar crawling insects. An advantage of using pyrethrum-based products against cockroaches is their ability to rapidly bring cockroaches out of their daytime hiding places. This indicates product efficacy to the consumer. Pyrethrum preparations may also be used around the outside of the house and in the garden to destroy pests on flowers and vegetables. When used in or around the house, it

is usually recommended that these products should not be used in the immediate vicinity of fish and other aquatic life.

Other Uses for Pyrethrum

Pyrethrum is also effective on fleas, lice and mosquitoes, and it has agricultural applications as well. The flea is a very adaptable parasite; both man and domesticated pets, such as cats and dogs, are suitable hosts. A flea has a four-stage life cycle, passing from egg to larva to pupa to adult; a process which takes about four weeks. After consuming blood from the host, the adult female can lay sev-

eral hundred eggs in the course of a few days. The eggs fall from the host and the larvae soon hatch. Adult fleas spend most of their time on the ground or in carpets. They only attach themselves to a host for feeding. This period occupies only about 10% of their life span. The adult stage is the best time to eradicate this undesirable parasite. A liquid or powder preparation containing 0.2% of pyrethrins and 1% piperonyl butoxide is usually quite effective.

The inclusion of 0.25% of a suitable insect growth regulator, such as methoprene, is beneficial because it inhibits egg hatching and larva development.

Lice are only parasitic toward mammals and their occurence in man, particularly as head lice in children, is quite socially unacceptable. Other types of body lice also exist. Lice infestation is readily transferred from one individual to another by direct contact or by the use of commonly shared articles such as combs, brushes or clothing. If left unchecked, lice infestation can reach epidemic proportions, especially in hospitals, schools or similar institutions. The development cycle of the louse is about four weeks. From the egg (called nits) stage to the adult stage, the louse passes through three nymph stages. Pyrethrum is frequently used to control lice infections. It can be incorporated in a powder, an aqueous cosmetic lotion or a shampoo.

Mosquito coils are slow-burning pyrethrum-containing products that create an aromatic, insecticidal smoke. These coils kill mosquitoes, houseflies and other flying insects and keep them from feeding in areas where the coils are burning. The

7/

pyreturum period se 1.11 hander tangé na 1945 and moments who substants Eta organic filler can be ground pyrethrum leaves, marc or spent flowers tafter solvent extractions, sawdust, powdered coconut or similar materials. The binder should be a powdered, natural substance, preferably one containing polysaccharide gums. All ingredients are made into a paste and either extruded as a filament, which is formed into a coil, or , made into a flut sheet, from which the coils are stamped. Mosquito coils can burn for up to eight hours and contain about 0.25% pyrethrins. To avoid smoke emission, pyrethrin-impregnated mats or chips are also available. These forms are used with an electric vaporizer. Due to past shortages of natural pyrethrum powder. most mosquito coils today contain synthetic pyrethroids.

Due to high costs, the use of pyrethrum insecticides in agriculture has been significantly reduced, especially with the large-scale development of the synthetic organic insecticides. Today, however, pyrethrum is

control distribution has hely or per action to be interesting and hash of per action per as an added advantage. To deal with pyrethrum-susceptible pestorics also being used on larger acroages at reintively low concentrations.

What of the Future?

The long term future of natural pyrethrum insecticides is highly dependent on several factors; its cost compared to synthetic insecticides, continuity of supply and the effect of regulatory controls in certain countries. In 1978 and 1979 there was a major shortage of pyrethrum which caused many formulators to switch to less expensive synthetic products. Nearly two decades later, the natural pyrethrum industry has not fully recovered from this major setback.

However, today there is renewed interest in pyrethrum because of its unique properties and general safety. This interest has provided the impetus for East African pyrethrum producers and others to increase their production and processing capacity. Newer plant varieties, capable of higher yields, are

a service of constant of the service of the service

General Reading

Want more information on pyrethrum? Try these sources Pyrethrum Flowers—Production, Chemistry, Toxicology and Uses, Eds. J. E. Casida and G.B. Quistad, Oxford University Press, 1995, and Formulating Pyrethrum. The Pyrethrum Bureau, Nakuru, Kenya, E

Coming Next Month:

The Wax & Polish Market

An Update on ISO

A Look at Executive Pay

High Shear Extracts the Truth From Botanical

Hou don' Greatly believe that all botamest extracts are the same, do nout of course riot. And neutre do we

But we'do believe that our new Cytes are superior to any other, plant extracts you may have looked at, and we think that after you're looked at them, you'll be a believer, too. Here's why

First, we don't rely on just 2 single extraction method; we fractionate plants into three components. Each fractional component has unique, highly specific attributes, tailored for precise functionality. Our ExCytes are processed to provide extremely high extract concentrations. Next, our high-

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Second, we use advanced process control systems to ensure that the character of all extracts is uniform, consistent with the traits of the specific plant, and optimally functional.

flord, we select only those plants with superior, defined traits, to provide the most potent extracts available anywhere. We then subject each Cyte to controlled clinical evaluation, to assure that their performance meets or exceeds on

tel 516.689.0200 fax 516.689.0205 riginous specifications. To date, we have produced Cytes derived from apple, chamomile (matricaria) green tea, licather, hops, kola lemon bahn, and lemon peel. We are constantly developing new Cytes: Call for availability.

If our new Cytes sound like they can enhance your formulations, we'd be delighted to have you try them. Fill in the coupon, or call or write, and we'll rush you full details.

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IN THE MATTER OF United States of America Patent Application No. 09/341,299 in the name of VERONICA ROBINSON

EXHIBIT VT-3





SURVEILLANCE UNIT

PO Box 100 Woden ACT 2606 Australia Telephone: (02) 6232 8640 Facsimile: (02) 6232 8643



Ms Veronica Townsend. Lice Busters International Pty Ltd. Unit 5, 1 Townsend Street. Malaga. 6062. Western Australia.

Dear Ms Townsend.

I have received the new label that you forwarded to this office for our opinion. This label has been discussed with our advertising unit and we are satisfied that you are not breaching any Therapeutic Goods Legislation.

Hope this is of assistance to you.

Regards,

Margaret Lanc.

Principal Investigator.

Surveillance Unit.

17 September, 2001



This product is designed to be worn in the hair during n outbreak of lice. Worn daily it naturally keeps lice way and imparts a fresh herbal aroma that children ye, and stops re-infestation. Replace headband within a weeks or when effect diminishes. Keep item dry and store below 30°C.

DIRECTIONS



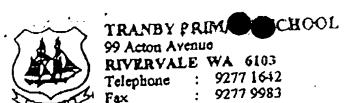


LICE BUSTERS INTERNATIONAL PRY LIG. Unit 51 Townsend Street Madaga, WA 5090 Manufactured by:



IN THE MATTER OF United States of America Patent Application No. 09/341,299 in the name of VERONICA ROBINSON

EXHIBIT VT-4



ncipal : Lea Hadley

To whom it may concern:

Up to a short time ago, our school had been in the grips of a head lice plague for many months, with frequent reoccuring outbreaks causing the children, staff and parents much distress. Parents were becoming increasingly frustrated at having to pay out quite a lot of money to treat their children's hair, only to often have to repeat the process again and again to no avail. Not only was this a financial drain, but also an emotional one as the children were getting annoyed with the constant checking and treatments they were having to endure. From the school's point of view, the lice plague had presented the added problem of interrupting the children's educational routine when they had to be sent home from school until the infestation was treated.

In early May of this year a product called Lice Busters was brought to our attention and enquiries were made. To cut a long story short, we received samples of the headbands, cap inserts and treatment oil, along with detailed literature describing these products, and it wasn't long before the parents of Tranby Primary School were placing their orders. The feedback we have received from the parents using these products has been all positive, with many buying extras for friends and family in other parts of the country. The parents have been very happy with the results using the treatment oil, and the headbands and inserts are also apparently doing their job of prevention. Most of the parents are extremely pleased to have finally found a product that is working on ridding their children's hair of these pesty mites, plus the fact that it is not chemically based and the cost is so accommodating to even the tightest budget. Tranby Primary School is therefore happy to endorse a local product such as Lice Busters that is helping us to help our community with what has been an extremely annoying health problem.

L.J. Hadley

Lea Hadley.
PRINCIPAL.

M. Rotclard

Michelle Pritchard.
PARENT LIAISON OFFICER.
8th June 1998.



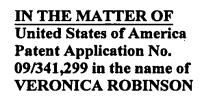


EXHIBIT VT-5



12th March 2001

TO WHOM IT MAY CONCERN

Scarborough Beach Pharmacy has been dealing with Licebusters International for the past six months.

We initially heard of this company and it's Licebuster products through another retailer and have found these products to be an effective deterrent and treatment for the lice problem which is presently plaguing most schools around Australia.

I have no hesitation in recommending the company and its products to other interested parties.

Yours faithfully

CHRIS WELLS

Pharmacist/Proprietor

Street Address 97 Landsborough Ave Scarborough QLD 4020 Phone: (07) 3203 6230 Fax: (07) 3203 5466 Email: jillwells@ozemail.com.au

IN THE MATTER OF United States of America Patent Application No. 09/341,299 in the name of VERONICA ROBINSON

EXHIBIT VT-6



2 9248-1700

Developmental Optometrists Contact Lens Consultants Optical Dispensers 9248-1722 fax

7th December 2001

TO WHOM IT MAY CONCERN:

RE: Licebusters

After using a variety of lice treatment products on the market—and having no success, I was finally put in touch with Licebusters in Malaga. My daughter was provided with an inhouse treatment where the nits were removed and her hair cleaned. She was then provided with home treatment products and a scrunchie which she wears all the time.

I found the service and products provided by Licebusters to be of the highest professional nature and I would not hesitate to recommend their products and service.

Kind regards

BARRY TUCKER

Barry Tucker Dip. Optom (S.A.) MBCO (U.K.)

Provider Number 2201363J

P O Box 2605 Malaga 6944

Unit 1 – 110 Illawarra Crescent Cnr. Marangaroo Drive, Ballajura, 6066

IN THE MATTER OF United States of America Patent Application No. 09/341,299 in the name of VERONICA ROBINSON

EXHIBIT VT-7

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ANATOMY & HUMAN BIOL UWA

Page 1 of 6

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_____NextPart_000_0009_01C02B20.798E7160 Content-Type; text/plain; charset="iso-8859-1" Content-Transfer-Encoding: quoted-printable

Good morning,

I called in to your shop on Friday 29th September 2000 to buy some more = Lice Busters scrunchies.

My husband and I have 4 young children, and have had intermittent = problems with head lice over the last 18 months. We have been using the = Robi-Comb religiously, but the problem is that we can send the children = to school, free of fice, on a Monday morning, and have them come home = with big fat adult lice that same afternoon. The problem is that there = are un-treated children at school. The time factor for the Robi-Comb was = a nuisance too - it took me at least an hour to do all four children - = prus extra time for my husband and myself as well. We needed a =

Then I heard about Lice Busiers from a Mum at school (Jonelle at Our = Lady's Assumption Primary school, Dianella - Ph. 9249 1070). Thank God.=20

preventative measure.

Page 2 of 6





I bought some scrunchies and cap inserts. Then a bottle of oil and some "headbands. On the day I started to use the oil - I sprayed some oil onto "the kids' hair and a hair brush - then brushed all their hair "thoroughly, and put the long hair into "piggies" and plaits. I couldn't "believe my eyes - lice were actually running out of their hair - and the "annoying thing was that I had only 2 days before Robi-combed their hair. "So we left the hair oily and tied up for 24 hours, and then shampooed "and conditioned their hair.

Then I tipped the remainder of the 100ml bottle of Lice Busters oil into =
a 375ml bottle of detangling spray (a cheap supermarket one - South =
Pacific Reef Sea Spray Conditioner). Every morning and night when we do =
the kids hair - we shake the detangling spray bottle, and give the kids =
hair a thorough spray - especially the pape, and fringes - then brush =
and plait hair. The girls happily wear your serumehies and headbands. =
and our son has cap inserts in his kindy hat.

It has been 4 weeks of this new regime - and not a single new lice! And = the big benefit for me - being a busy Mum - is that I haven't had to = change any of my habits. We were already using the detangling spray = these whining when I'm brushing hair in a hurry!) - and the initial = sprey of the concentrated oil to rid the infestation was no different to using the detangling spray. I'm just realising now - how the children = are not scratching environe.

On an ongoing basis - I feel the cost is going to be quite minimal. Your = 100ml hertle of oil into a 375ml bottle of detangling spray is going to = last a long time.

Thank you so much for a fabulous product. I wish you well.

To whom it may concern,

As a povent of a daughter who gets everything I was very interested to hear about herbal headbands for the prevention of head lice. I cannot treat my daughter with chemical solutions so after having one month off school because of an outbreak I was delighted to try this new product. I am pleased to say that since my daughter has been wearing a Lice Busters Herbal Headbard during school hours we have so far managed to avoid getting into the "Lice Cycle" through two outbreaks not only at her school but in her classroom! I have no hesitation in reccomending Lice Busters as a solution to an on going problem. I think it's just great that there is an alternative to chemical solutions.

from a very satisfied parent.

3204 Alberry Hazer

Ovoje Winder 98 kingtisher Ave Bailigura 6066 10/11/01

Dear Lice Busters

a grant

Just a quick note of Thanks about your products.

Since using the collars and oils on my my pets Colog. cat's ferrets) My problems have now dissapeared.

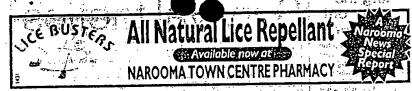
I have found not only do these products keep the fleas away but with my doy the flies do not among her anymore.

are alst happier and my ferrets also no longer smell as much.

Jours sincerely awinkter

IN THE MATTER OF United States of America Patent Application No. 09/341,299 in the name of VERONICA ROBINSON

EXHIBIT VT-8



Beat head lice the natural way

treatment to rid head lice is now available exclusively from Narooma's Town Centre Pharmacy.

The product by Lice Busters International, is based on natural herbal oils which include pyrethrum, rosemary and citronella.

The Lice Busters Programs repels and pro-tects against head lice.

The head band/cap insert program is designed to repel and combat the life cycle of the head lice.

Adult lice live on the scalp: they suck blood and

The eggs hatch after about seven days and the young nymphs mature rapidly to lay more eggs within 14 days

The adult lice crawl from head to head and spread rapidly amongst friends.

So even if shampoos or conventional treatments manage to kill all of the adult lice, if any eggs remain, these can hatch out and set up a new infestation in a few weeks time.

Even if all eggs are carefully removed with a nit comb, your child may easily become re-infested from another child.

The Lice Busters Program aims to stop this

One application left overnight and shampooed off the next morning will treat head lice safely and effectively.

cause irritation.

They lay eggs' (nits) which are stuck on to the hair.

Then, wear a Lice Busters head band or cap

Wear for at least a few. hours each day, particular-ly during morning and lunch recesses and at other times when close head contact is likely.

Economical: 8 weeks protection.

against head lice.



 Lice Busters all natural repellent products are available exclusively from Kellie Fortune at Narooma Town Centre Pharmacy

9-5.30 Mon-Fri • 9.30-1 1.30 Sun Phone: 4476 2056

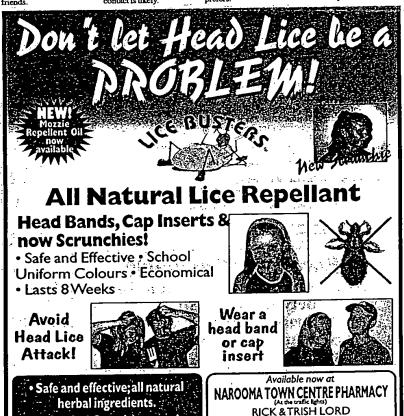
outbreak is over.

If your child is not infested but is in contact with others who are:

*Simply wear a head band, scrunchie or cap insert until the outbreak is over, whichever your child

This will help protect *Use a small application your child until the lice of Lice Busters oil or spray each day (although this is not as effective as the head band/cap insert method).

Call in now and get all the answers on the Lice Busters all natural lice repellent exclusively at Narooma Town Centre Pharmacy.



IN THE MATTER OF United States of America Patent Application No. 09/341,299 in the name of VERONICA ROBINSON

EXHIBIT VT-9